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			TO DAY TO DAY TO DE	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO.	96/21/2001		FIRST NAMED INVENTOR		7279	
09/886,548			Matthew B. Dubin	Н0002057		
7590 07/03/2002  Larry J. Palguta  Honeywell Law Dept.				EXAMINER		
				CARIASO, ALAN B		
3520 Westmoor Street South Bend, IN 46628		ART UNIT		PAPER NUMBER		
				2875		
				DATE MAILED: 07/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

_1_		Application No	).	Applicant(s)	N
		09/886,548		DUBIN ET AL.	1
		09/886,548 Examiner		Art Unit	
	Office Action Summary	Al Corioso		2875	
	The MAILING DATE of this communication ap	Alan Cariaso	er sheet with th		dress
eriod for	Reply  STATISTORY PERIOD FOR REPL	LY IS SET TO E			
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1) 🔲	Responsive to communication(s) filed on	·	a final		
-,/□ 2a)[]	This action is FINAL. 2b)⊠ 1	This action is not	a formal matter	re nrosecution as to t	the merits is
3)□ Dispositie	Since this application is in condition for allow closed in accordance with the practice unde ton of Claims		or rormai matte yle, 1935 C.D.	11, 453 O.G. 213.	
<b>∆</b> \∇ <b>7</b>	Claim(s) 1-40 is/are pending in the applicati	ion.	desert.		
الاعار،	4a) Of the above claim(s) is/are withd	Irawn from consi	ideration.		
51□	Claim(s) is/are allowed.				
	Claim(s) <u>1-40</u> is/are rejected.				
7\□	Claim(s) is/are objected to.				
.,∟ 8)□	Claim(s) are subject to restriction and	nd/or election req	uirement.		
Applicat	tion Papers				
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10)	is/are: a) a	ccepted or b)LL 0	opjected to by th	nce See 37 CFR 1 85/	a).
	Applicant may not request that any objection to			sapproved by the Exar	miner.
11)	The proposed drawing correction filed on	is: a)[_] ap	blosed pin an	ouppior ou by the Exter	
	If approved, corrected drawings are required in	in reply to this Offi	ice action.		
	] The oath or declaration is objected to by the	e Examiner.			
			lar OF II O O	\$ 119(a)_(d) or (f)	
13)	] Acknowledgment is made of a claim for for	reign priority und	uer 35 U.S.C. {	3 1 10(a)-(u) 01 (i).	
2	NO All NO Some * c) None of:				
		ments have beer	n received.	onlication No	
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	3. Copies of the certified copies of the application from the Internation	e priority docume al Bureau (PCT	Rule 17.2(a)).	received.	•
	* See the attached detailed Office action for a Acknowledgment is made of a claim for dor	mestic priority u	nder 35 U.S.C.	§ 119(e) (to a provis	ional application
	Acknowledgment is made of a claim for do	omestic priority u			
Attachm			4) Interview	v Summary (PTO-413) Pap	per No(s)
	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94 nformation Disclosure Statement(s) (PTO-1449) Paper N	148) No(s) <u>2</u> .	5) Notice of 6) Other:	of Informal Patent Application	
-/ EN	17 James Office			<u>-</u>	Part of Paper No. 3

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### **DETAILED ACTION**

#### **Specification**

1. The disclosure is objected to because of the following informalities: Page 9, lines 8-9, the phrase "Input face 318 is oriented generally perpendicular to the aircraft's direction of flight" appears to be misdescriptive as illustrated in figure 3. It appears that the direction normal to the plane of the face 318 is that which is perpendicular to the aircraft's direction.

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-25 and 28-38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1, 24, 25, 29 last line, the limitation "a lens through which emitted light passes" is indefinite because it is not clear as to where this lens is located with respect to any part of the invention. And it is not clear as to which intended lens is being claimed since the specification discloses two lenses (206,fig.2 and diffuser 330,fig.3). Similarly, the process claims 28, 37 and 38, last line, recites a process of "passing the emitted light through a lens" which is indefinite for the same reason above.

Page 3 Application/Control Number: 09/886,548 Art Unit: 2875 Claim 9, line 1, "said light" is indefinite as directed to the emitted light or to the 5. light source. Claim 10, the phrase "the light sources comprising one or more combinations of 6. colors", especially the "more combinations of colors" is indefinite as not being supported by the specification. Though it is disclosed that there certain colors used per position light, there is no mention of a combination of colors among the plural light sources in any one position light housing. Claim 11, the phrase "said light sources comprise one or more combinations of 7. angular distribution" is indefinite as lacking structure or means to support this function. Claims 15-20, 24 and 25 are rejected under 35 U.S.C. 112, second paragraph, 8. as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are between the (first) prism and the optical filter, the at least one diffuser, second prism, and the lens. Claim Rejections - 35 USC § 102 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that 9. form the basis for the rejections under this section made in this Office action: A person shall be entitled to a patent unless -(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in-(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application Application/Control Number: 09/886,548

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published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

- 10. Claims 1-3, 8-11, 16-19, 21, 22, 26-31 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by YAMADA et al (US 5,704,703).
- In regards to apparatus claims 1-3, 8-11, 16-19, 21, 22, 26 and 27, YAMADA 11. discloses a housing structure (10,fig.3 or 40,fig.7, space 35 enclosed by surfaces 33,33a,34,36); at least one light source (1,fig.3 or 31,fig.7) arranged inside the housing structure (10,40); a prism (2,fig.3 or 32,fig.7) having an input face (2a, fig.3 or 32a,fig.7), an output face (2c or 32c'), and a transflective face (32b,fig.7 or 2b,fig.3) to receive, distribute, and direct light (fig.3, col.6, lines 21-39) emitted by the light source (1,31) which is external of the prism (2,32); and a lens (32a,fig.7; col.9, lines10-14) through which emitted light passes; wherein a first portion of the light emitted from the light source (51,fig.9A) undergoes total internal reflection (col.6,lines 22-38) at the transflective face (52b) of the prism (52) and a second portion of the light emitted from the light source (51) is transmitted through the transflective face, the combination of the first and second portions of light producing a light pattern (col.10,lines 16-32) with a sharp angular cutoff (fig.9B) broadly corresponding to the critical angle for t.i.r at the transflective face (52b); wherein means for aligning of the light source is inherent by the predetermined position of the light source (fig.3,7); wherein the light source inherently emits visible light which includes any of green, red, and white light; wherein the light comprises a plurality of light sources (figs.14A-18); wherein the light sources comprise at least one visible color; as best understood, wherein the light sources (figs.14A-18)

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comprise one or more combinations of angular distribution (col.13,lines 45-50); further comprising at least one diffuser (32a,fig.7 or diffusion sheet-fig.4B or transparent diffusion sheet 37-fig.7); further comprising a second prism (figs.14A-18) similar to and adjacent the first prism to further shape and direct light emitted by the light source(s); further including facets (32a-fig.7) that are flat or curved (col.9,lines 10-14) on the input face of any of the plural prisms.

12. In regards to process claims 28-31, 34, 39 and 40, since the apparatus claims along with intend function are met by YAMADA as describe above, then these claimed processes which correspond to the claimed structure are also anticipated.

## Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over YAMADA et al (US 5,704,703).
- 15. Claims 12 and 13 recite the plural light sources being electrically connected in series and in series-parallel. It would have been obvious to one having ordinary skill in the art at the time of applicant's invention to modify the plural adjacent light sources and prism device of YAMADA to include connection of all the light sources in series or in series-parallel since it was known in the art that lighting devices that include plural load

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or light sources are all connected to powered by a common power source of which the systematic connection is known to include plural loads connected in series and/or series/parallel for the purpose of feeding all the light sources of the common device or system from the one power source.

## Allowable Subject Matter

- 16. Claims 24, 25, 37, 38 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 17. Claims 4-7, 14, 15, 20, 23, 32, 33, 35 and 36 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. LARGE et al (US 4,367,514) show recessed lighting fixture inside an aircraft that includes a series of transflective optical components that direct light outside the optical elements to the exterior of the aircraft. PELAK et al (US 6,177,761) show plural solid state light sources with current control directing light at a prism portion which internally reflects light and extracts them by angular output surfaces. MOCHIZUKI et al (US 4,737,896) show a prism that is adjacent a lens and light source, the prism having facets on its reflective and output faces. LANG (US 4,714,983) shows a prism that includes diffusing elements on plural faces thereof and

the light sources being LEDs. SUGIMOTO (US 5,241,462) shows plural prisms adjacent each other receiving portions of light not reflected by the transflective surfaces of each prism.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan Cariaso whose telephone number is (703) 308-1952. The examiner can normally be reached on M-F (9:00-5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703) 305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Alan Cariaso
Primary Examiner
Art Unit 2875

AC June 30, 2002